

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A stack, comprising:
  - an impermeable metal structure configured to function as a collector layer or a bipolar plate,
  - at least one first metal fiber layer, and
  - at least one second metal fiber layer,
  - said first metal fiber layer having fibers with an equivalent diameter larger than 20  $\mu\text{m}$  and being sintered to a first side of said impermeable metal structure,
  - said second metal fiber layer having fibers with an equivalent diameter smaller than 10  $\mu\text{m}$  and being sintered to another side of said first metal fiber layer opposite to the impermeable metal structure,
  - wherein a planar air permeability of said stack is more than 0.02 l/min\*cm,
  - wherein a porosity of said second metal fiber layer is less than 80%,
  - wherein a porosity of said first metal fiber layer is more than 80%.
2. (Previously Presented) A stack as in claim 1, said stack further comprising another first metal fiber layer sintered to a second side of said impermeable metal structure and another second metal fiber layer sintered to the another first metal fiber layer on a side opposite to the impermeable metal structure.
3. (Canceled)
4. (Currently Amended) A stack as in claim 1, said second metal fiber layer having a perpendicular air permeability of less than 200  $\frac{\text{l}}{\text{min} \cdot \text{dm}^2}$   $\frac{\text{l}}{\text{min} \cdot \text{cm}^2}$ .
5. (Cancelled)
6. (Cancelled)

7. (Previously Presented) A stack as in claim 1, said first metal fiber layer having a thickness of more than 0.5mm.
8. (Previously Presented) A stack as in claim 1, said second metal fiber layer having a thickness of less than 0.2mm.
9. (Previously Presented) A stack as in claim 1, said stack having a transversal electric resistance less than  $30 \times 10^{-3}$  Ohm.
10. (Previously Presented) A stack as in claim 1, said impermeable metal structure being a metal plate.
11. (Previously Presented) A stack as in claim 1, said impermeable metal structure being a metal foil.
12. (Previously Presented) A stack as in claim 1, wherein metal fibers of the first and second metal fiber layers are stainless steel fibers.
13. (Previously Presented) A stack as in claim 1, wherein metal fibers of the first and second metal fiber layers are Ni-fibers or Ni alloy fibers.
14. (Previously Presented) A stack as in claim 1, wherein metal fibers of the first and second metal fiber layers are Ti-fibers.
15. (Previously Presented) A stack as in claim 1, wherein metal fibers of the first and second metal fiber layers are a same alloy of said impermeable metal structure.
16. (Previously Presented) A fuel cell, comprising a plurality of stacks as in claim 1.
17. (Previously Presented) An electrolyser, comprising a plurality of stacks as in claim 1.

18. (Canceled)

19. (Canceled)

20. (Previously Presented) A stack as in claim 1, wherein the porosity of the first metal fiber layer is more than 10% greater than the porosity of the second metal fiber layer.

21. (Canceled)

22. (Canceled)

23. (New) A stack as in claim 1, wherein the porosity of said first metal fiber layer is more than 82%.

24. (New) A stack as in claim 1, wherein the porosity of said first metal fiber layer is more than 85%.

25. (New) A stack as in claim 1, wherein the porosity of said first metal fiber layer is more than 90%.

26. (New) A stack as in claim 4, wherein the perpendicular air permeability is the amount of gas passing through the second metal fiber layer in a direction perpendicular to a plane of the second metal fiber layer.